IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this

application. Please amend claims 1-3 as follows:

--1. (Currently Amended) A controller for a photographing apparatus having a

photographing portion with driving means that allows the photographing direction of

photographing means to be varied, comprising:

spherical surface in which the photographing means is disposed for photographing

pictures;

displaying means for displaying a panorama picture generated ~~with a picture~~

~~photographed by the photographing means~~ by mapping a plurality of pictures on to a virtual

spherical surface representing said spherical surface; and

controlling means for referencing the panorama picture and varying the

photographing direction of the photographing means.--

--2. (Currently Amended) A controller for a photographing apparatus having a

photographing portion with driving means that allows the photographing direction of

photographing means to be varied, the controller comprising:

spherical surface in which the photographing means is disposed for photography

pictures;

an operation area [[in which]] displaying a panorama picture generated ~~with a~~

~~picture photographed by the photographing means is displayed~~ by mapping a plurality of pictures

on to a virtual spherical surface representing said spherical surface; and

picture selecting means for allowing the user to designate a desired point in said

operation area, selecting an object photographed by the photographing means corresponding to

the designated point, and moving the selected object to desired positional coordinates of the

driving means.--

--3. (Currently Amended) A controller for a photographing apparatus having a

photographing portion with driving means that allows the photographing direction of

photographing means to be varied, the controller comprising:

spherical surface in which the photographing means is disposed for photographing

pictures;

an operation area [[in which]] displays a panorama picture generated with a

picture photographed by the photographing means is displayed by mapping a plurality of pictures

on to a virtual spherical surface representing said spherical surface; and

picture selecting means for allowing the user to designate a desired area in said

operation area, selecting an object photographed by the photographing means corresponding to

the designated area, and moving an object at the position corresponding to a desired point

generated with the desired area to desired positional coordinates of the driving means.--

Claims 4-19 (Canceled)